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This work furnished the material of the wonderful campaign by which Gorgas cleansed the Panama Canal zone of yellow fever, and so made possible the completion of that work. Gorgas came to Panama from Havana, which he had also cleansed of yellow fever in about a year, though the place was a famous hotbed of the disease. His method was to attack the mosquito in its breeding places and to exclude it as far as possible from contact with fever cases.

Dr. Noguchi's work on filter-passing germs is well known. It is also well known that from time to time the suggestion has been offered that the spirochetes pass through two stages of development, one of these stages being of an extremely minute type. Whether or not this view will receive confirmation through the new discovery remains to be seen. In all matters bacteriological it is necessary to keep an open mind until proof of an absolute kind has been forthcoming.

#### LECTURES BY PROFESSOR BLARINGHEM

DR. LOUIS BLARINGHEM, professor of agricultural biology at the Sorbonne, and exchange professor at Harvard University for 1918-19, is giving a series of ten lectures in French, beginning on Tuesday, April 15, on "The condition and future of agriculture in France." The lectures will be given in Emerson Hall, on Tuesday and Friday afternoons at 4.30 o'clock. They will be open to the public. The dates and titles are as follows:

Avril 15. Le sol français; variétés des terrains et climats. Crûs.

Avril 18. Grandes cultures: blé, betteraves, pommes de terre, lin.

Avril 22. Prés et bois; amélioration des pâtures; plantation des dunes et des territoires dévastés.

Avril 25. Arbres fruitiers; vignes; volailles. Qualités et débouchés.

Avril 29. Cultures forcées; serres et abris vitrés. Production des fleurs.

Mai 6. La science française et l'agriculture. Engrais chimiques.

Mai 9. La lutte contre les maladies du bétail et des produits fermentés.

Mai 13. La production de nouvelles variétés par des sociétés industrielles.

Mai 16. Le paysan français producteur de crûs. Son éducation, ses aptitudes et ses besoins. Rôle de la fermière.

Mai 20. Avenir et renaissance de l'agriculture française. Emploi des machines. Développement des moyens de transport.

#### NATIONAL RESEARCH COUNCIL

MEMBERS of the Division of Chemistry and Chemical Technology have been nominated as follows:

By the *American Chemical Society*: C. L. Alberg, Bureau of Chemistry, Department of Agriculture, Washington, D. C.; W. D. Bancroft, National Research Council, Washington, D. C.; C. G. Derick, National Aniline & Chemical Co., Inc., Buffalo, N. Y.; J. M. Francis, Parke Davis & Co., Detroit, Mich.; E. C. Franklin, Leland Stanford Jr. University, Stanford University, Cal.; W. F. Hillebrand, Bureau of Standards, Washington, D. C.; John Johnston, Yale University, New Haven, Conn.; Julius Stieglitz, University of Chicago, Chicago, Ill.; J. E. Teeple, 50 East 41st St., New York, N. Y.

By the *American Electrochemical Society*: Colin G. Fink, 20 2nd St. and 10th Ave., New York, N. Y.

By the *American Institute of Chemical Engineers*: Hugh K. Moore, Research Laboratory, Brown Co., Berlin, N. H.

By the *American Ceramic Society*: Albert V. Bleininger, Bureau of Standards, Pittsburgh, Pa.

By the *Division*: C. H. Herty, 35 East 41st St., New York, N. Y.; G. A. Hulett, Princeton University, Princeton, N. J.; A. B. Lamb, Harvard University, Cambridge, Mass.; A. A. Noyes, Massachusetts Institute of Technology, Cambridge, Mass.; C. L. Parsons, Bureau of Mines, Washington, D. C.; E. W. Washburn, University of Illinois, Urbana, Ill.

#### THE AMERICAN SOCIETY OF MAMMALOGISTS

THE American Society of Mammalogists held its organization meeting in the New National Museum, Washington, D. C., April 3 and 4, 1919, with a charter membership of over two hundred and fifty, of whom sixty were in attendance at the meeting. The following officers were elected: C. Hart Merriam, president; E. W. Nelson, first vice-president; Wilfred H. Osgood, second vice-president; H. H. Lane, recording secretary; Hartley H. T. Jackson, corresponding secretary, and Walter P. Taylor,

treasurer. The councilors are: Glover M. Allen, R. M. Anderson, J. Grinnell, M. W. Lyon, W. D. Matthew, John C. Merriam, Gerrit S. Miller, Jr., T. S. Palmer, Edward A. Preble, Witmer Stone and N. Hollister, editor.

Committees were appointed on: Life histories of mammals, C. C. Adams, chairman; Study of game mammals, Charles Sheldon, chairman; Anatomy and phylogeny, W. K. Gregory, chairman; and Bibliography, T. S. Palmer, chairman. The policy of the society will be to devote its attention to the study of mammals in a broad way, including life histories, habits, relations to plants and animals, evolution, paleontology, anatomy and other phases.

Publication of the *Journal of Mammalogy*, in which popular as well as technical matter will be presented, will start this year.

Any person interested in mammals is invited to become a member of the society, and those who qualify before the next annual meeting will be considered charter members. Every one who desires to have a complete file of the journal should join now. Annual dues are three dollars; life membership seventy-five dollars in one payment.

#### SCIENTIFIC NOTES AND NEWS

IN connection with the semi-centennial celebration of Cornell University a dinner will be given on June 19 by the department of physics and members of the university faculty to Professor E. L. Nichols, who retires from the active work of the professorship of physics.

PROFESSOR JACQUES HADAMARD, of the Collège de France, has accepted an invitation from Yale University to be a Silliman Lecturer in the spring of 1920. M. Hadamard is a distinguished French mathematician who received the honorary degree of LL.D. at the Yale Bicentennial in 1901.

C. TATE REGAN has been appointed assistant keeper of zoology in the British Natural History Museum in succession to Mr. W. R. Ogilvie Grant, who has retired.

PROFESSOR M. I. PUPIN, of Columbia University, until recently Royal Consul General

for Serbia to the United States, has gone to France to the Peace Conference.

DR. C. HART MERRIAM has been elected chairman of the U. S. Geographic Board, as successor to the late Andrew Braid.

EIGHTY trees will be planted in the Caledonia Furnace forest reserve on Arbor Day, honoring Dr. J. T. Rothrock, of West Chester, father of the forestry activities of the state of Pennsylvania, who was eighty years old on April 9.

DR. HENRY ALLAN GLEASON, assistant professor of botany and also director of the Botanical Garden and arboretum at the University of Michigan, has been appointed the first assistant of the director-in-chief of the New York Botanical Garden, succeeding Dr. W. A. Murrill, who has been transferred to the new position of supervisor of public instruction.

THE Hemenway fellowship in the Peabody Museum of Harvard University has been awarded for the year 1918-1919 to Eduardo Noguera, assistant director of antiquities in the National Museum of Mexico, and last year a Robert C. Winthrop scholar at Harvard. The Charles Eliot Ware Memorial Fellowship in the medical school for the academic year 1918-1919 has been awarded to Edward Allen Boyden, of Newton Centre.

DR. ALEXANDER C. ABBOTT, of the University of Pennsylvania, has been promoted to the rank of colonel. He is now in charge of the sanitary supervision of the territory occupied by the second Army, but expects to be back at the university in the fall.

CAPTAIN ELTON D. WALKER, head of the department of civil engineering of Pennsylvania State College, has returned after more than eighteen months' service overseas.

CAPTAIN H. C. PORTER, of the Ordnance Department, U. S. A., is now with the Chemical Service Laboratories, at West Conshohocken, Pennsylvania.

CAPTAIN R. R. RENSHAW, C. W. S., who has been directing a corps of research men in the Johns Hopkins University war laboratory,